

International Application No.: PCT/JP2004/008976
U.S. Patent Application No.: Unknown
March 14, 2005
Page 3 of 10

IN THE ABSTRACT:

Please replace the Abstract of the Disclosure originally filed with the above-identified patent application with the following Abstract:

ABSTRACT OF THE DISCLOSURE

~~In order to improve the reliability,~~ A buckling actuator has a connecting section of a supporting beam that is provided with a rotatable supporter for allowing a movable member to be stably maintained at one of two switch positions. ~~—A substrate—2,~~ stationary members ~~6,~~ rotatable supporters ~~8,~~ and supporting beams ~~7—~~support a movable member ~~4—~~in a shiftable manner in a y-axis direction, such that the movable member ~~4—~~can be shifted between first and second switch positions. Moreover, the rotatable supporters ~~8—~~are each provided with arm portions ~~9, 10, and 11—~~which extend in a radial fashion and support the corresponding supporting beam ~~7—~~in a rotatable manner. When the movable member ~~4—~~is being shifted, each supporting beam ~~7—~~can be rotated without having to bend a corresponding end ~~7A—~~by a significant amount. Thus, a large barrier ΔE of potential energy of the movable member ~~4—~~is set between the first and second switch positions. The movable member ~~4—~~can therefore be stably maintained at each of the switch positions even when electric power is not supplied to electrodes ~~12 to 15.~~ Furthermore, each arm portion ~~10—~~prevents the movable member ~~4—~~from being displaced in an x-axis direction.